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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/032,102	12/31/2001	Takashi Mukaihara	381TO/41670C4	6848	
7	05/06/2002				
CROWELL & MORING, L.L.P. Intellectual Property Group P.O. Box 14300			EXAMINER		
			TRAN, BINH Q		
Washington, D	C 20044-4300		ART UNIT	PAPER NUMBER	
			3748		
			DATE MAILED: 05/06/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

					M			
		Application	on No.	Applicant(s)				
<b>,</b>		10/032,10	10/032,102		MUKAIHARA ET AL.			
	Office Action Summary	Examiner		Art Unit				
		BINH Q. T		3748				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1) 🗌	Responsive to communication(s) file	ed on						
2a) 🗌	This action is FINAL.	2b)⊠ This action is	non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims								
•		application.						
•	<ul> <li>4) ☐ Claim(s) 1-16 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>							
5) Claim(s) is/are allowed.								
6) Claim(s) is/are rejected.								
•	7) Claim(s) is/are objected to.							
8) 🛛 (	Claim(s) <u>1-16</u> are subject to restriction	on and/or election req	uirement.					
Applicatio	n Papers							
9)∐ T	he specification is objected to by the	e Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
-	nder 35 U.S.C. §§ 119 and 120			-				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)[	All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
	B. Copies of the certified copies application from the Internet the attached detailed Office action	national Bureau (PCT	Rule 17.2(a)).		Stage			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a)	The translation of the foreign lar	nguage provisional ap	plication has been rec	ceived.				
Attachment(s)								
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (P ation Disclosure Statement(s) (PTO-1449) P		4) Interview Summar 5) Notice of Informal 6) Other:					

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## **DETAILED ACTION**

## Election / Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-2 drawn to a temperature estimation apparatus classified in class 123, subclass 676.
- II. Claim 3 draws to a method of estimating a temperature of a catalyst, classified in class 60, subclass 274.
- III. Claims 4-16 drawn to a catalyst-deterioration diagnostic system for diagnosing a deterioration state of a catalyst classified in class 60, subclass 277.

Inventions *I*, *II*, and *III* are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the *temperature estimation apparatus* of the *invention I* can be used for estimating temperature of any component in an internal combustion engine, such as water cooling temperature, intake air temperature, and exhaust gas temperature. The *method of estimating a temperature of a catalyst* of the *invention II* is used for estimating temperature of a catalytic converter. The apparatus for *diagnosing a deterioration state of a catalyst* of the *invention III is used for* diagnoses a catalyst system of an internal combustion engine.

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Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (703) 305-0245. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (703) 308-2623. The fax phone number for this group is (703)

746-4561.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0861.

BT

May 5, 2002

Binh Tran

Patent Examiner

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THOMAS DENION

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SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700